

COMPOSITIONS AND METHODS FOR TREATING HIV INFECTION WITH CUPREDOXIN AND CYTOCHROME C

Publication number: WO2006127514

Publication date: 2006-11-30

Inventor: CHAKRABARTY ANANDA (US); GUPTA TAPAS DAS (US); YAMADA TOHRU (US); CHAUDHARI ANITA (US); FIALHO ARSENIO (PT); HONG CHANG SOO (US)

Applicant: TRUSTEES OF THE UNIVERSITY OF (US); CHAKRABARTY ANANDA (US); GUPTA TAPAS DAS (US); YAMADA TOHRU (US); CHAUDHARI ANITA (US); FIALHO ARSENIO (PT); HONG CHANG SOO (US)

Classification:

- International: C07K14/195; C07K14/82; C07K14/195; C07K14/82;

- European: C07K14/80; C12N9/04

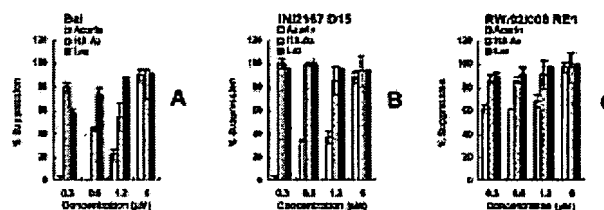
Application number: WO2006US19565 20060519

Priority number(s): US20050682833P 20050520; US20050244105 20051006; US20060780868P 20060310

Report a data error here

Abstract of WO2006127514

The present invention relates to cupredoxin, specifically *Pseudomonas aeruginosa* azurin, and/or *Pseudomonas aeruginosa* cytochrome c551 and their use in inhibiting of viral infection, and in particular infection of mammalian cells by the Human Immunodeficiency Virus (HIV). The invention also relates to variants and derivatives of cupredoxin and cytochrome c that retain the ability to inhibit viral infection, and in particular infection by the Human Immunodeficiency Virus (HIV). The invention also relates to research methods for studying viral and bacterial infection in mammalian cells.



Data supplied from the esp@cenet database - Worldwide

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 November 2006 (30.11.2006)

PCT

(10) International Publication Number
WO 2006/127514 A2

(51) International Patent Classification:
C07K 14/195 (2006.01) **C07K 14/82** (2006.01)

Ivo Cruz, Lote 23 3 Esq, P-1500-401 Lisbon (PT). **HONG, Chang Soo** [KR/US]; 901 South Ashland Avenue, Apt. 704, Chicago, Illinois 60607 (US).

(21) International Application Number:
PCT/US2006/019565

(22) International Filing Date: 19 May 2006 (19.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/682,833 20 May 2005 (20.05.2005) US
11/244,105 6 October 2005 (06.10.2005) US
60/780,868 10 March 2006 (10.03.2006) US

(71) Applicant (for all designated States except US): **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS** [US/US]; 352 Henry Administration Building, 506 Wright Street, Urbana, Illinois 61801 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHAKRABARTY, Ananda** [US/US]; 206 Julia Drive, Villa Park, Illinois 60181 (US). **GUPTA, Tapas Das** [US/US]; 1317 Jackson Avenue, River Forest, Illinois 60305 (US). **YAMADA, Tohru** [JP/US]; 903 South Cuyler Avenue, Apt. 2, Oak Park, Illinois 60304 (US). **CHAUDHARI, Anita** [US/US]; 23c Coachman Square, Clifton Park, New York 12065 (US). **FIALHO, Arsenio** [PT/PT]; Praceta Maestro

(74) Agents: **PELTO, Don et al.**; Preston Gates Ellis & Rouvelas Meeds LLP, 1735 New York Avenue, Nw, Suite 500, Washington, District Of Columbia 20006 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

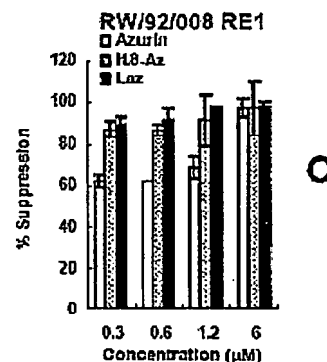
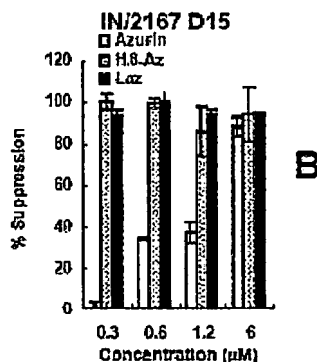
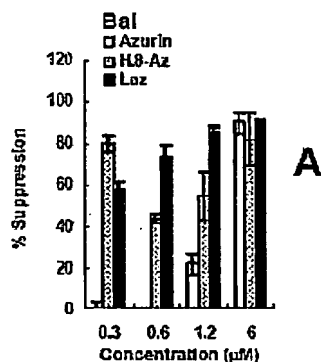
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: COMPOSITIONS AND METHODS FOR TREATING HIV INFECTION WITH CUPREDOXIN AND CYTOCHROME C



(57) Abstract: The present invention relates to cupredoxin, specifically *Pseudomonas aeruginosa* azurin, and/or *Pseudomonas aeruginosa* cytochrome c551 and their use in inhibiting of viral infection, and in particular infection of mammalian cells by the Human Immunodeficiency Virus (HIV). The invention also relates to variants and derivatives of cupredoxin and cytochrome c that retain the ability to inhibit viral infection, and in particular infection by the Human Immunodeficiency Virus (HIV). The invention also relates to research methods for studying viral and bacterial infection in mammalian cells.